

TCTEX1D3 Antibody

Catalog # ASC11518

Product Information

Application	WB, IF, E
Primary Accession	Q8IZS6
Other Accession	NP_777570 , 28372535
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	23176
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TCTEX1D3 antibody can be used for detection of TCTEX1D3 by Western blot at 1 µg/mL. For immunofluorescence start at 20 µg/mL.

Additional Information

Gene ID	6991
Other Names	Tctex1 domain-containing protein 3, T-complex testis-specific protein 3, T-complex-associated testis-expressed protein 3, Tcte-3, TCTE3, TCTEX1D3
Target/Specificity	TCTE3; TCTEX1D3 is predicted to not cross-react with other members of the TCTEX-type family
Reconstitution & Storage	TCTEX1D3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	TCTEX1D3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	DYNLT2 (HGNC:11695)
Synonyms	TCTE3, TCTEX1D3
Function	Component of dynein, a family of motor proteins essential for movement along microtubules (PubMed: 11278908 , PubMed: 12584439). Required for structural and functional integrity of cilia (By similarity). Candidate for involvement in male sterility (By similarity).
Cellular Location	Cytoplasm, cytoskeleton {ECO:0000250 UniProtKB:P11985}. Cytoplasmic granule {ECO:0000250 UniProtKB:P11985}. Membrane

{ECO:0000250|UniProtKB:P11985}; Peripheral membrane protein
{ECO:0000250|UniProtKB:P11985}. Note=Found on the surface of sperm tail.
Stored in cytoplasmic granules during spermatogenesis
{ECO:0000250|UniProtKB:P11985}

Tissue Location

Expressed predominantly in testis. Also expressed in brain, lung and trachea.

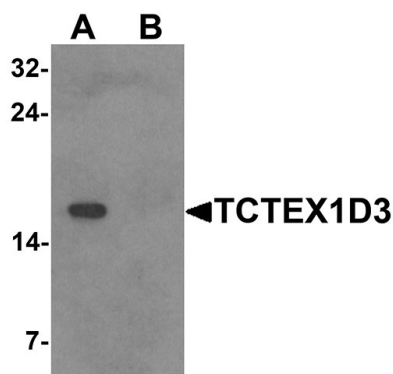
Background

TCTEX1D3 Antibody: Dyneins are multi-subunit, high molecular weight ATPases that interact with microtubules to generate force by converting the chemical energy of ATP into the mechanical energy of movement. Cytoplasmic or axonemal Dynein is an approximately 12 subunit complex of two heavy chains, two intermediate chains to anchor Dynein to its cargo, four smaller intermediate chains and several light chains. It performs functions necessary for cell survival such as organelle transport and centrosome assembly. TCTEX1 is a cytoplasmic dynein light chain found in a complex with Na⁺ CP type X (SCN10A). TCTEX1D3, also called TCTE3, has been identified as a gene responsible for congenital diaphragmatic hernia (CDH).

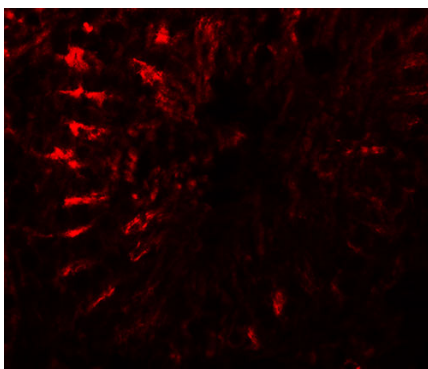
References

He Y, Francis F, Myers KA, et al. Role of cytoplasmic dynein in the axonal transport of microtubules and neurofilaments. *J. Cell Biol.* 2005; 168:697-703.
Li J, Lee WL, and Cooper JA. NudEL targets dynein to microtubule ends through LIS1. *Nat. Cell Biol.* 2005; 7:686-90.
Watanabe TK, Fujiwara T, Shimizu F, et al. Cloning, expression, and mapping of TCTEL1, a putative human homologue of murine Tcte1 to 6q. *Cytogenet. Cell Genet.* 1996; 73:153-6.
Chuang JZ, Yeh TY, Bollati F, et al. The dynein light chain Tctex-1 has a dynein-independent role in actin remodeling during neurite outgrowth. *Dev. Cell* 2005; 9:75-86.

Images



Western blot analysis of TCTEX1D3 in EL4 cell lysate with TCTEX1D3 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of TCTEX1D3 in human testis tissue with TCTEX1D3 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.